Waterloo Climate

1895-Present

Compiled by: Craig Cogil

Temperature

Highest Daily Maximum:	112	July 13 and 14, 1936
Lowest Daily Maximum:	-16	February 2, 1996
Highest Daily Minimum:	80	August 16, 1988 and July 31, 1917
Lowest Daily Minimum:	-34	January 16, 2009 and March 1, 1962
Highest Daily Average:	93	July 13, 1936
Lowest Daily Average:	-23	February 2, 1996
Highest Monthly Average:	82.4	July 1936
Lowest Monthly Average:	-0.1	January 1977
Highest Winter Average:	29.7	2001/2002
Lowest Winter Average:	9.0	1977/1978
Highest Spring Average:	55.6	2012
Lowest Spring Average:	42.0	1960
Highest Summer Average:	76.7	1936
Lowest Summer Average:	66.3	1915
Highest Autumn Average:	56.9	1931
Lowest Autumn Average:	43.6	1976
Highest Yearly:	53.1	1931
Lowest Yearly:	43.0	1917

Most Consecutive Days of Max at 100 degrees or Higher:	13	July 5 – 17, 1936
Most Consecutive Days of Max at 90 degrees or Higher:	21	June 28 – July 18, 1936
Most Consecutive Days of Max at 32 degrees or Lower:	52	Dec. 30, 1978 – Feb. 19, 1979
Most Consecutive Days of Max at 0 degrees or Lower:	8	January 4 – 11, 1912
Most Consecutive Days of Min at 70 degrees or Higher:	12	July 26 – August 6, 1955*
Most Consecutive Days of Min at 32 degrees or Higher:	186	May 4 – November 5, 1940*
Most Consecutive Days of Min at 32 degrees or Lower:	142	Nov. 7, 2000 – March 28, 2001
Most Consecutive Days of Min at 0 degrees or Lower:	23	Dec. 28, 1976 - Jan. 19, 1977

Temperature Normals 1981-2010

Yearly Average:	47.8
Winter Average:	21.3
Spring Average:	48.4
Summer Average:	71.6
Autumn Average:	49.9

Precipitation

Wettest Day:	6.00”	September 8, 1941
Wettest Month:	12.82”	July 1999
Driest Month:	Trace	November 1954
Wettest Winter:	6.91”	1914/1915
Driest Winter:	0.96”	1955/1956
Wettest Spring:	20.50”	2013
Driest Spring:	2.05”	1934
Wettest Summer:	31.02”	1993
Driest Summer:	4.76”	2012
Wettest Autumn:	17.78”	1961
Driest Autumn:	2.41”	1999
Wettest Year:	53.07”	1993
Driest Year:	17.35”	1910
Highest 7-day total:	9.60”	July 15 – 21, 1968
Highest 30-day total:	19.93”	July 10 – August 8, 1968
Highest 90-day total:	30.90”	June 1 – August 29, 1993
Consecutive Days of No Measured Rain:	58	September 20 – November 16, 1952
Consecutive Days of a Trace or more:	16	April 11 – 26, 1992
Consecutive Days of 0.01 or more:	10	September 27 – October 6, 1914*
Consecutive Days of 0.10 or more:	8	September 16 – 23, 1931
Consecutive Days of 0.50 or more:	5	August 18 - 22, 2007
Consecutive Days of 1.00 or more:	3	August 18 – 20, 2007*

Precipitation Normals 1981-2010

Yearly Average:	34.60”
Winter Average:	3.02”
Spring Average:	10.30”
Summer Average:	14.16”
Autumn Average:	7.12”

Snowfall

Snowiest Day:	14.0”	November 30, 1934
Snowiest Month:	33.9”	December 2000
Snowiest Season:	59.4”	1961-1962
Least Snow in a Season:	11.6”	1967-1968
Snowiest Calendar Year:	64.3”	2000
Least Snow Calendar Year:	6.5”	1922
Highest 7-day total:	17.5”	November 30 – December 6, 1934
Highest 30-day total:	33.2”	December 16, 2008 – January 14, 2009
Highest 90-day total:	51.3”	December 3, 2009 – March 2, 2010
Most Snow on Ground:	25”	February 20, 1936*
Consecutive Days of No Measured Snow:	286	February 24 – December 6, 1914
Consecutive Days of a Trace or More:	14	December 18 – 31, 1968
Consecutive Days of 1.0” or More:	4	November 30 – December 3, 2005*
Consecutive Days with 1” Snowdepth:	113 from November 20, 1985 to March 12, 1986	
Earliest Initial Occurrence of Trace:	September 26, 1942	

Earliest Initial Occurrence of 0.1”:	October 10, 1932
Earliest Initial Occurrence of 1”:	October 18, 1991
Latest Initial Occurrence of Trace:	December 6, 1948
Latest Initial Occurrence of 0.1”:	December 20, 2004
Latest Initial Occurrence of 1”:	February 10, 1944
Earliest Final Occurrence of a Trace:	March 4, 2012
Earliest Final Occurrence of 0.1”:	February 18, 1908
Earliest Final Occurrence of 1”:	January 4, 1922
Latest Final Occurrence of a Trace:	May 29, 1947
Latest Final Occurrence of 0.1”:	May 29, 1947
Latest Final Occurrence of 1”:	May 29, 1947

Snowfall Normals 1981-2010

Yearly Average:	35.3”
January Average:	8.2”
February Average:	7.4”
March Average:	4.6”
April Average:	1.8”
May-September Average:	None
October Average:	0.3”
November Average:	3.1”
December Average:	9.9”

Frost/Freeze

Earliest Initial Occurrence of 36 degrees:	August 20, 1950
Latest Initial Occurrence of 36 degrees:	October 25, 1914
Earliest Final Occurrence of 36 degrees:	April 15, 1985
Latest Final Occurrence of 36 degrees:	June 4, 1945
Earliest Initial Occurrence of 32 degrees:	September 11, 1917
Latest Initial Occurrence of 32 degrees:	November 6, 1940
Earliest Final Occurrence of 32 degrees:	April 7, 1955
Latest Final Occurrence of 32 degrees:	May 31, 1897
Earliest Initial Occurrence of 28 degrees:	September 18, 1929
Latest Initial Occurrence of 28 degrees:	November 8, 1947
Earliest Final Occurrence of 28 degrees:	March 24, 1998
Latest Final Occurrence of 28 degrees:	May 14, 1895

*- Indicates the event is tied with a previous day(s), month(s) or year(s).

Brief Metadata:

Waterloo observations began on January 21, 1895 at 617 Mulberry Street near downtown Waterloo. The observations continued at this site until April 24, 1911 and then the observations moved to 302 High Street and were recorded there from April 25, 1911 to June 1, 1914. On June 2, 1914 the location for observations moved to 717 Fairview Street and remained there for over 35 years until February 28, 1950 when the observations were suspended at this location. Meanwhile, observations began at the Waterloo airport on January 29, 1948 where they have remained until present.

M. L. Newton made observations from the beginning until December 31, 1910. On January 1, 1911 Ralph Slippy took over the observations and continued until the suspension of observations in February of 1950. At the Waterloo airport, the observations from January 29, 1948 to October 17, 1955 were taken by individuals of the Waterloo Municipal Airport. The Weather Bureau and the National Weather Service has been responsible for the observations from October 18, 1955 to

present. However, snowfall observations from the mid 1990's until present have been handled by a variety of snow observers in the Waterloo/Cedar Falls area.

The Waterloo climate data is a compilation of the data from the Waterloo Cooperative Observers from January 1895 to February 1950 and then from Waterloo Municipal Airport from March 1950 to present.

If you have any questions or comments, please send them to craig.cogil@noaa.gov.